

FIG. 1A

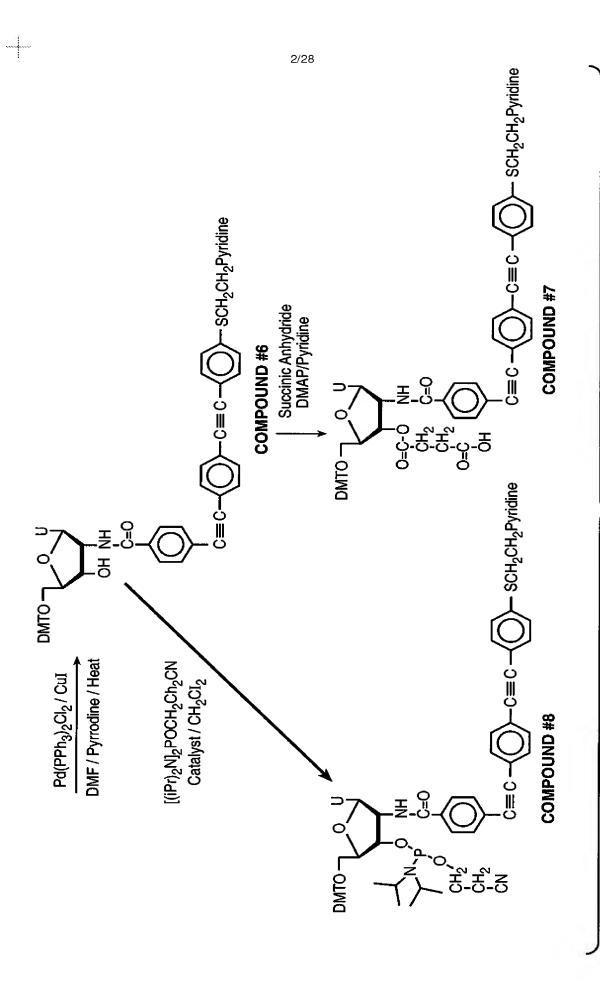
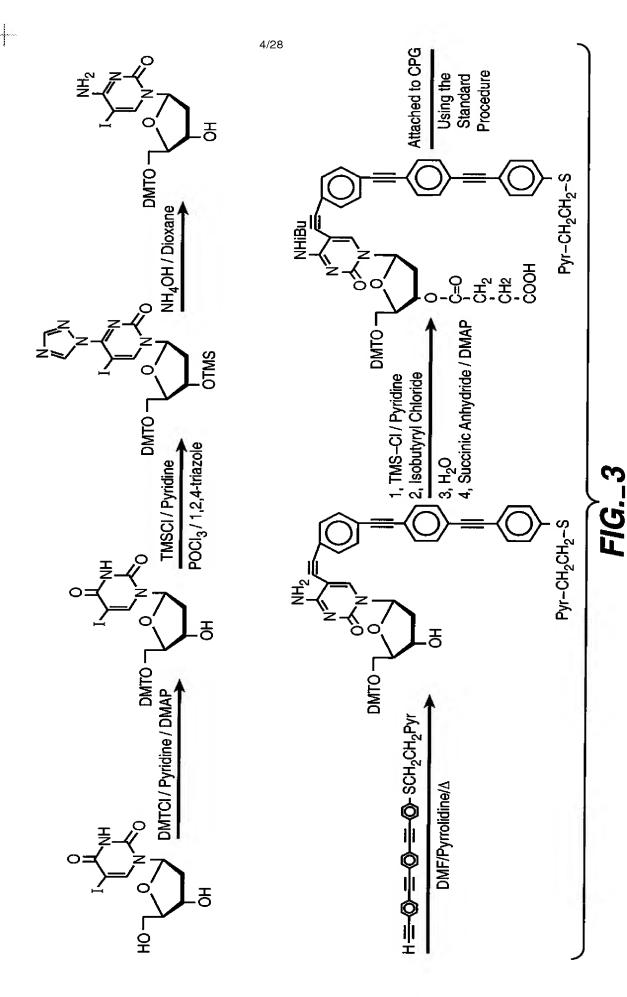


FIG._ 1B

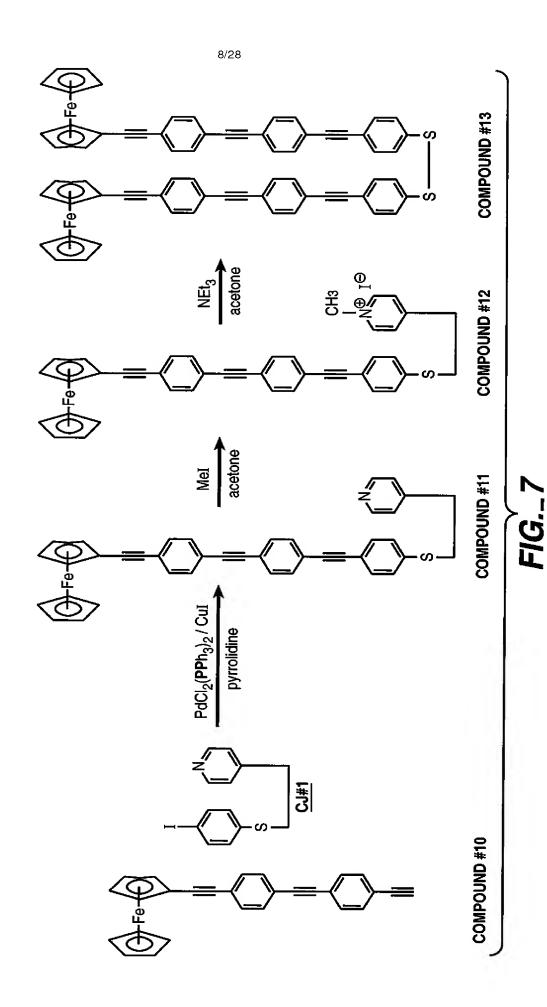
FIG._2

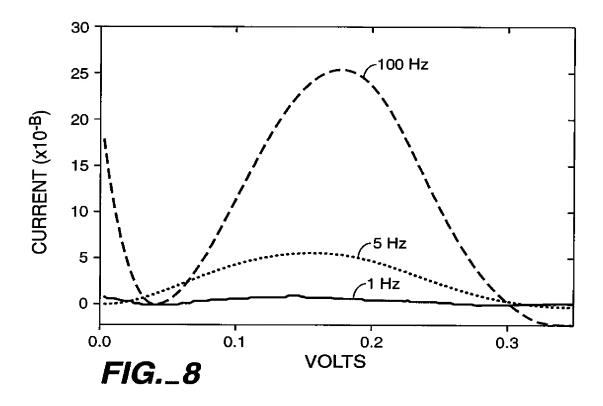


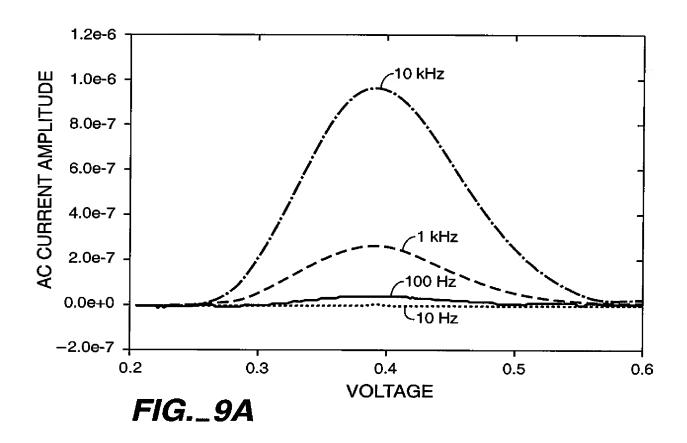
I

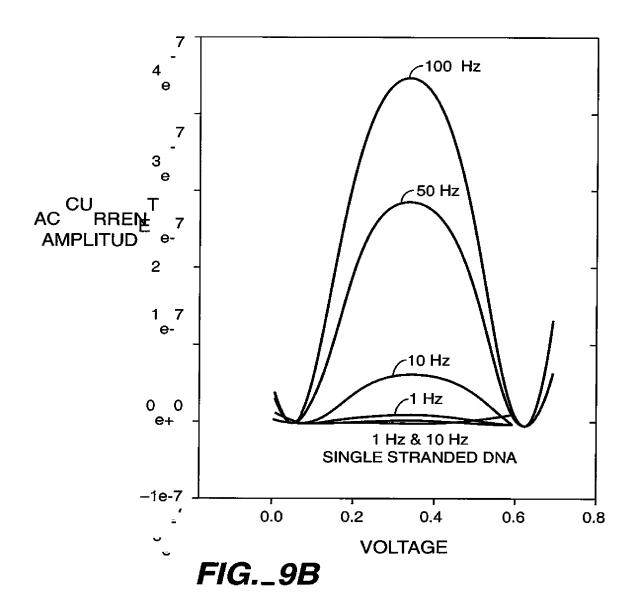
+

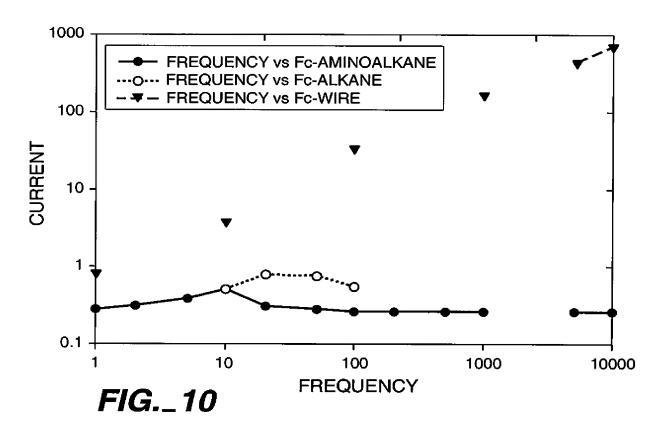
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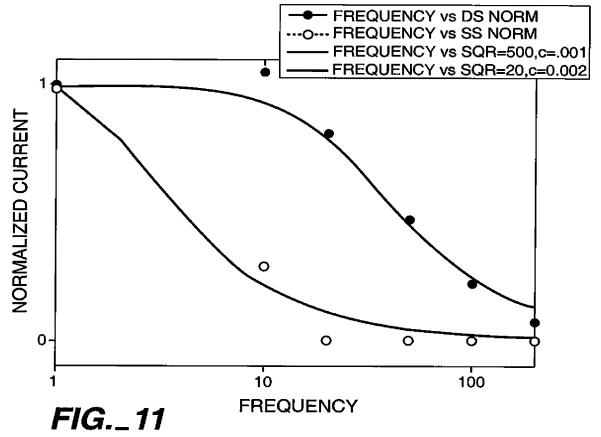


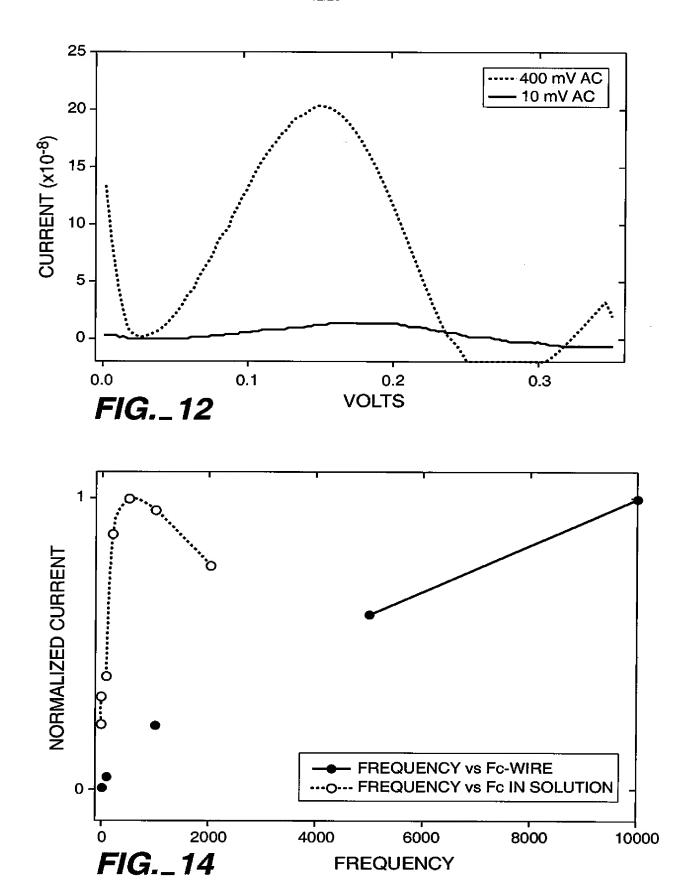


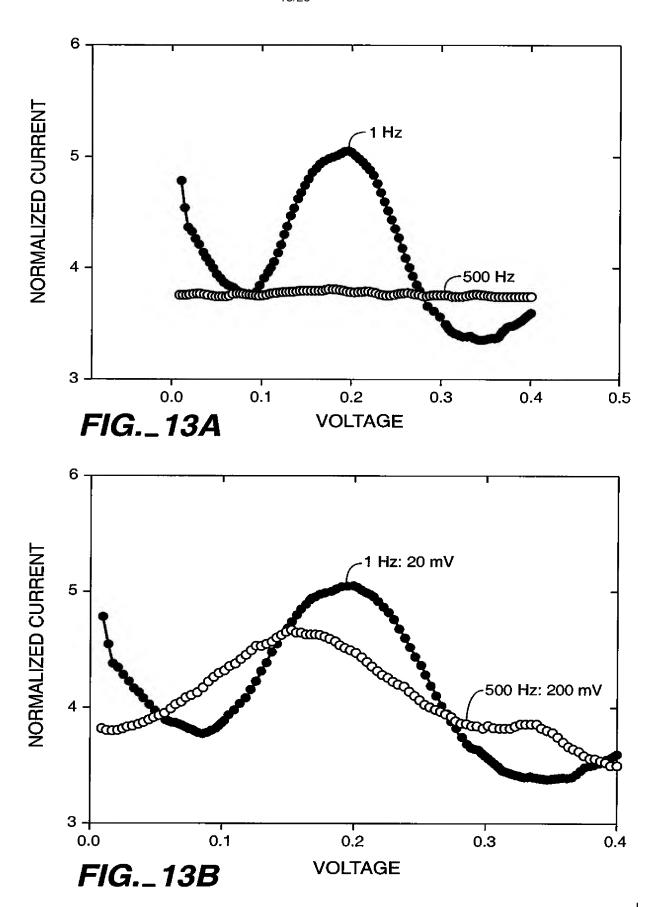


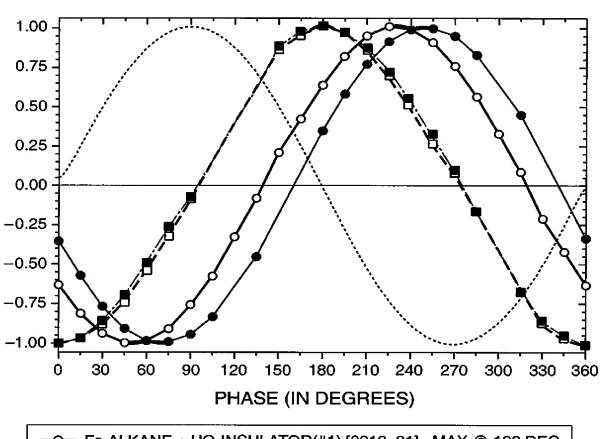












- -O- Fc-ALKANE + HO-INSULATOR(#1) [0213_21] MAX @ 182 DEG.
- Fc-ALKANE + HO-INSULATOR (#2) [0213_55] MAX @ 179 DEG.
- [—]□- Fc-WIRE (DISULFIDE) + HO-INSULATOR, 2-STEP PROCESS [g010901]

MAX @ 230 DEG.

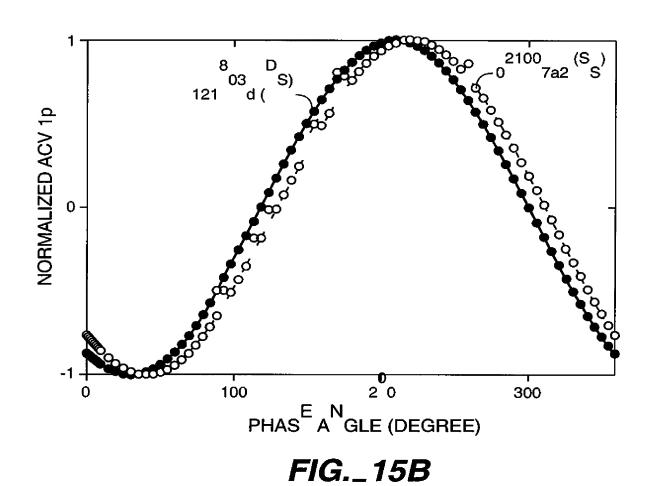
■ Fc-WIRE (PROTECTED) + HO-INSULATOR,

3 STEP PROCESS [g010834]

MAX @ 250 DEG.

----- DRIVING FORCE

FIG._15A



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$$FIG. 17B$$

$$CPG$$

FIG._17F

FIG._ 18A

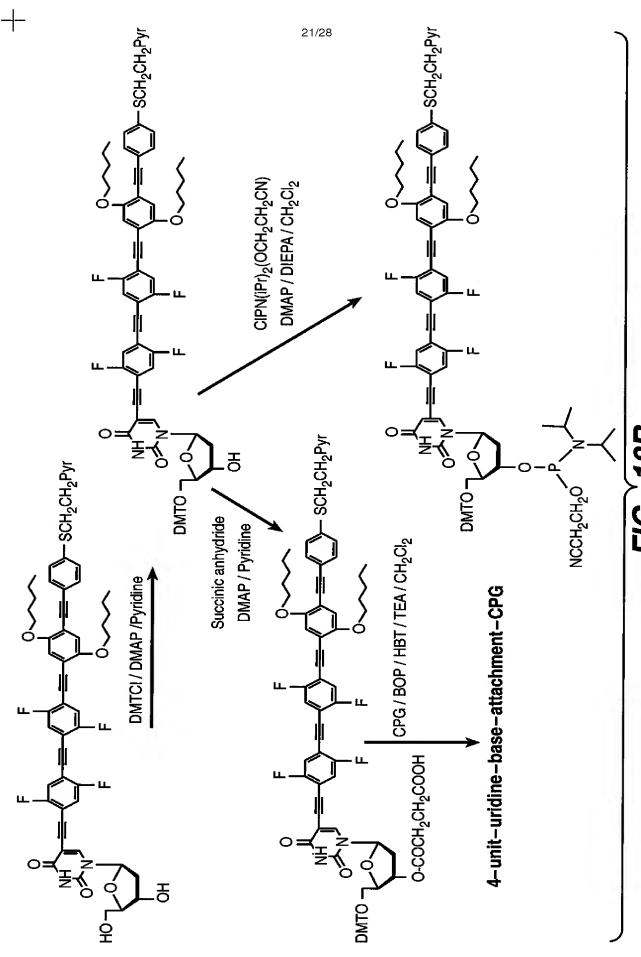
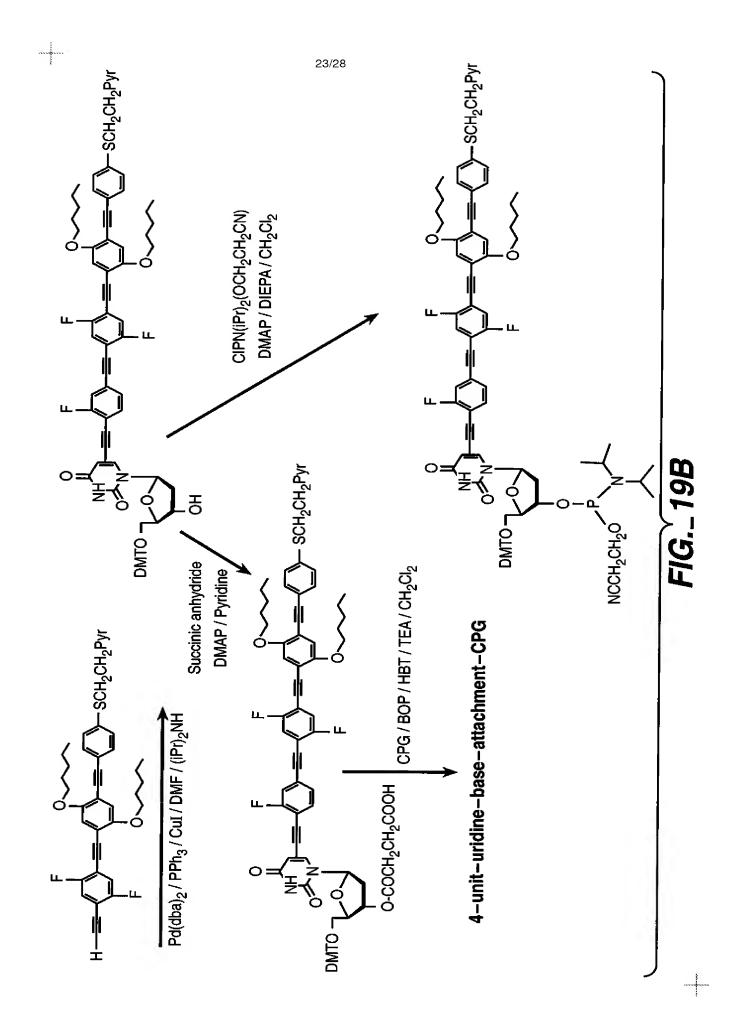


FIG._ 18B



Br
$$-\bigcirc$$
 Si + $-$ Si - Benzene Br $-\bigcirc$ - Si - TMS $-$ H TMS $-$ TMS $-$ TMS $-$ Si - Pd(dba)₂ / PPh₃ / CuI / DMF / (iPr)₂NH

$$K_2CO_3$$

THF / CH_3OH
 $H \longrightarrow \bigcirc$
 C_2CO_3

TMS = \bigcirc
 C_3
 C_4CO_3
 C_4CO_3

$$K_2CO_3$$

THF / CH_3OH
 $H = \bigcirc -S$

Pd(dba)₂ / PPh₃ / CuI / THF / (iPr)₂NH

 $I = \bigcirc -S$
 A_2CO_3
 A_3
 A_3
 A_4
 A_4
 A_4
 A_5
 A_5

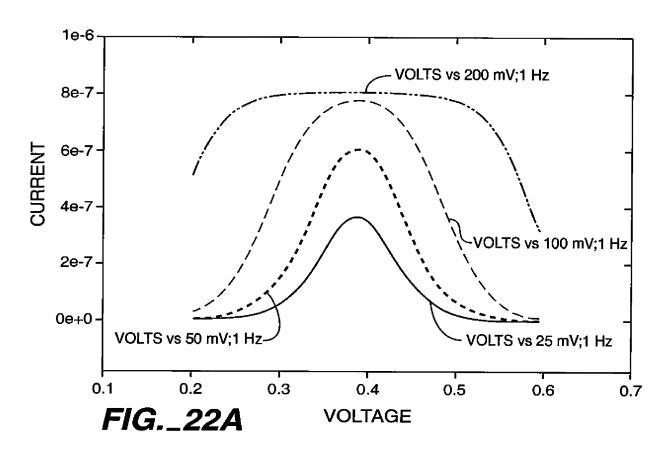
FIG._20A

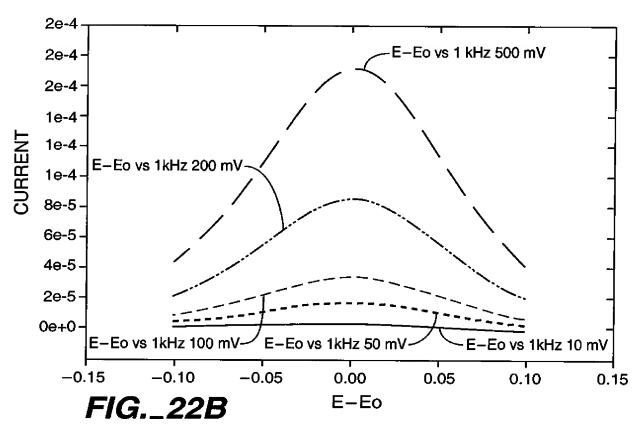
FIG._20B

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TES =
$$\bigcirc$$
 = \bigcirc =

0.09 M NaOH H
$$\rightarrow$$
 O \rightarrow OH NH-CH₂ \rightarrow I \rightarrow THF / CH₃OH \rightarrow OH \rightarrow OH Pyrrolidine / DMF





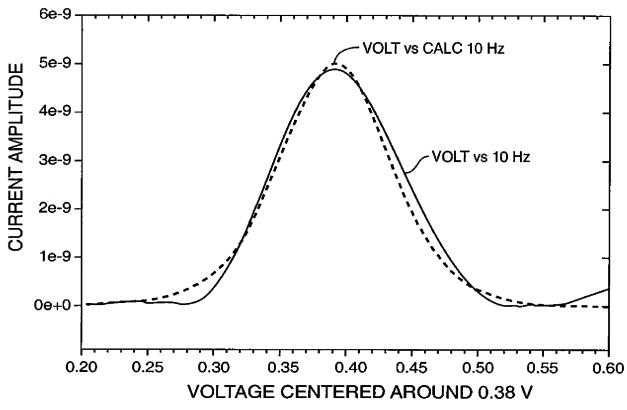


FIG._23A

